

ABSTRACT OF THE DISCLOSURE

A capacitive probe for simultaneously detecting a plurality of electric near fields present proximate a hybrid or DIS ignition under test during operation of the hybrid ignition, the hybrid or DIS ignition having a first output to a first spark plug and a second output to a second spark plug. The probe includes a base configured for removable attachment to an ignition housing by means of an interference fit and a single capacitive sensor fixed to the base. The sensor is disposed on the base and has an electrical lead connected thereto. The probe simultaneously detect a first electric near field developed by a first high voltage signal in a hybrid or DIS ignition first output to a first spark plug and a second electric near field developed by a second high voltage signal in a hybrid or DIS ignition second output to a second spark plug and outputs a corresponding signal including a positive-going signal component from the first electric near field and a negative-going signal component from the second electric near field.